



May 27, 2011

BP Products North America Inc.
2815 Indianapolis Blvd.
P.O. Box 710
Whiting, IN 46394-0710
USA

CERTIFIED MAIL#
RETURN RECEIPT REQUESTED

Indiana Department of Environmental Management
OWQ Data Management Section
100 North Senate Avenue
Indianapolis, IN 46206

Re: DMR Report Outfalls 002, 003, 004, & 005
NPDES Permit No. 0000108

Please find enclosed the effluent quality data and Discharge Monitoring Report forms from the BP Products North America Inc. - Whiting Business Unit for the month of April 2011. The report identifies exceedances of NPDES permit limits due to the unexpected loss of one of two clarifiers and significant rain events which hit the region during April. The notification reports concerning this upset event were submitted to IDEM as required on April 25, 26, 28, 29, May 2, and 4.

On April 18th, foaming was noticed on the surface of the clarifier. Upon further inspection, it was observed that the center well had dropped into the clarifier and was hung up on the suction rake below. This made the clarifier inoperable. Operations immediately and safely brought the clarifier out of service and began working to maximize flow through the remaining clarifier. The remaining operating clarifier processed high volumes of water as containment was limited due to periodic rain events. In order to minimize any adverse impact, the refinery enacted watershed to reduce flow to the wastewater treatment plant (WWTP). Vacuum trucks were staged at the WWTP 24hrs/d. Staff was increased to monitor status of the clarifier, and water was impounded in the equalization and storm surge tanks to maximum capacity. Despite taking measures to mitigate any impact, including our efforts to significantly reduce flow to the lakefront, carry-over from the clarifier bed occurred, which resulted in daily max TSS exceedances on April 21, 22, 23, 24, 25, 26, 27, and 28. Samples collected on April 29, 30, and May 1 indicated that TSS had returned to normal levels and we were operating within our NPDES permit limit. This event also resulted in a monthly average TSS exceedance. Samples collected on April 27 resulted in a daily max Oil & Grease exceedance but on April 28 samples indicated that Oil & Grease had returned to normal levels and we were operating within our NPDES permit limit. Discoloration was observed at Outfall 005 intermittently from April 28 through May 2. We exceeded our daily max for BOD on April 27 but were below our permit limit on April 28.

The refinery implemented Incident Command on April 28 through May 3 to provide focus on managing the loss of clarifier event with minimal environmental impact. The refinery implemented full watershed actions, including reducing production rates, to reduce flow to the

wastewater treatment plant. Response contractors and equipment were deployed at the refinery. Due to the hydraulic loading as well as oil and solids due to this event, the biomass at the wastewater treatment plant was significantly impacted, prolonging recovery.

The Whiting Business Unit is conducting an incident investigation and root cause failure analysis with the key objective of preventing such events from occurring.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or need any additional information, please contact Valorie L. Moore at (219) 473-2095.

Sincerely,

A handwritten signature in black ink, appearing to read "N. D. Spencer", with a stylized flourish at the end.

Nick Spencer
Business Unit Leader
Whiting Business Unit

Cc: N. Ream, Merrillville, IN

Attachments: DMR Report

PERMITTEE NAME/ADDRESS

NAME BP PRODUCTS NORTH AMERICA INC.
ADDRESS WHITING REFINERY - MAIL CODE 062
2815 INDIANAPOLIS BLVD
WHITING IN 46394

FACILITY BP PRODUCTS NORTH AMERICA INC
LOCATION WHITING IN
ATTN: DANIEL SAJKOWSKI, PLT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Revised: ☐

IN0000108		002 A	
PERMIT NUMBER		PERMITTED FEATURE	
MONITORING PERIOD			
MO	DAY	YEAR	MO
04	01	11	04
FROM		TO	
04/01/11		04/30/11	

Form Approved
OMB No. 2040-004
Approval Expires 05-31-98



For any questions call Gary Starks at 317-232-8694

*** Mark box if NO DISCHARGE ☐ ***

NOTE: Read Instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Temperature, water deg. fahrenheit 00011 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	78.6	82.4	deg F		Daily	CONTIN
	PERMIT REQUIREMENT					Report	Report		0	Five Per Week	CONTIN
Temperature, water deg. fahrenheit 00011 7 0 0 Intake from Stream	SAMPLE MEASUREMENT	*****	*****		*****	47.0	50.0	deg F		Daily	CONTIN
	PERMIT REQUIREMENT					Report	Report		0	Five Per Week	CONTIN
Waste heat rejection rate 00179 2 0 0 Effluent Net	SAMPLE MEASUREMENT	458	622	MBTU /hr	*****	*****	*****			Five Per Week	CONTIN
	PERMIT REQUIREMENT	1700	2000						0	Five Per Week	CONTIN
pH 00400 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		7.5	*****	7.9	SU		Three Per Week	GRAB
	PERMIT REQUIREMENT				6		9		0	Three Per Week	GRAB
Oil and grease, hexane extr method 00552 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	0.9	0.9	mg/L		Monthly	GRAB
	PERMIT REQUIREMENT					Report	5		0	Monthly	GRAB
Flow, in conduit or thru treatment plant 50050 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	42.1	57.6	Mgal/d	*****	*****	*****			Daily	TOTALZ
	PERMIT REQUIREMENT	Report	Report						0	Daily	TOTALZ
Chlorine, total residual 50060 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	0	0	lb/d	*****	0	0	mg/L		Weekly	GRAB
	PERMIT REQUIREMENT	20	60			.06	.06		0	Weekly	GRAB
		MO AVG	DAILY MX			MO AVG	DAILY MX				

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS

(Reference all attachments here)

NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE	
Nick Spencer Business Unit Leader		219 473-3179	5	26 11
TYPED OR PRINTED		SIGNATURE	AREA CODE AND NO.	MO DAY YEAR

PERMITTEE NAME/ADDRESS

NAME **BP PRODUCTS NORTH AMERICA INC.**
 ADDRESS **WHITING REFINERY - MAIL CODE 062**
2815 INDIANAPOLIS BLVD
WHITING IN 46394

FACILITY **BP PRODUCTS NORTH AMERICA INC**
 LOCATION **WHITING IN**
 ATTN: **DANIEL SAJKOWSKI, PLT MANAGER**

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Flow, total	SAMPLE MEASUREMENT	*****	1261.5	Mgal/ mo	*****	*****	*****		0	Monthly	RCOTOT
82220 1 0 0	PERMIT REQUIREMENT		Report								
Effluent Gross			MO TOTAL								

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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
pH	SAMPLE MEASUREMENT	*****	*****		7.4	*****	7.7	SU		Weekly	GRAB
00400 1 0 0 Effluent Gross	PERMIT REQUIREMENT				6		9			Weekly	GRAB
					DAILY MN		DAILY MX		0		
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	*****	*****		*****	1.1	2.7	mg/L		Weekly	GRAB
00552 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report	15		0	Weekly	GRAB
						MO AVG	DAILY MX				
Carbon, tot organic (TOC)	SAMPLE MEASUREMENT	*****	*****		*****	26	36	mg/L		Weekly	GRAB
00680 1 0 0 Effluent Gross	PERMIT REQUIREMENT					Report	110		0	Weekly	GRAB
						MO AVG	DAILY MX				
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.148	0.609	Mgal/d	*****	*****	*****			Daily	TOTALZ
50050 1 0 0 Effluent Gross	PERMIT REQUIREMENT	Report	Report						0	Daily	TOTALZ
		MO AVG	DAILY MX								

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AUTHORIZED AGENT

Nick Spencer
Business Unit Leader

TYPED OR PRINTED

SIGNATURE

TELEPHONE

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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
pH 00400 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		7.7	*****	8.2	SU		Weekly	GRAB
	PERMIT REQUIREMENT				6		9			Weekly	GRAB
					DAILY MN		DAILY MX		0		
Oil and grease, hexane extr method 00552 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	<1.1*	3.0	mg/L		Weekly	GRAB
	PERMIT REQUIREMENT					Report	15			Weekly	GRAB
						MO AVG	DAILY MX		0		
Carbon, tot organic (TOC) 00680 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****		*****	17	23	mg/L		Weekly	GRAB
	PERMIT REQUIREMENT					Report	110			Weekly	GRAB
						MO AVG	DAILY MX		0		
Flow, in conduit or thru treatment plant 50050 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	0.335	1.888	Mgal/d	*****	*****	*****			Daily	TOTALZ
	PERMIT REQUIREMENT	Report	Report							Daily	TOTALZ
		MO AVG	DAILY MX						0		

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		Average	Maximum	Units	Minimum	Average	Maximum	Units			
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	3290	14116	lb/d	*****	23.0	93.0	mg/L	1	Weekly	COMP 24
00310 1 0 0	PERMIT REQUIREMENT	4161	8164			Report	Report			Weekly	COMP24
Effluent Gross		MO AVG	DAILY MX			MO AVG	DAILY MX				
pH	SAMPLE MEASUREMENT	*****	*****		6.9	*****	7.3	SU	0	Three Per Week	GRAB
00400 1 0 0	PERMIT REQUIREMENT				6		9			Three Per Week	GRAB
Effluent Gross					DAILY MN		DAILY MX				
Solids, total suspended	SAMPLE MEASUREMENT	14174	66362	lb/d	*****	103.2	437.2	mg/L	9	Twice Every Week	COMP 24
00530 1 0 0	PERMIT REQUIREMENT	4925	7723			Report	Report			Twice Every Week	COMP24
Effluent Gross		MO AVG	DAILY MX			MO AVG	DAILY MX				
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	782	3263	lb/d	*****	5.2*	21.5	mg/L	1	Weekly	GRAB
00552 1 0 0	PERMIT REQUIREMENT	1368	2600			Report	Report			Weekly	GRAB
Effluent Gross		MO AVG	DAILY MX			MO AVG	DAILY MX				
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	440	453	lb/d	*****	40.28	3.27	mg/L	0	Five Per Week	COMP 24
00610 1 0 0	PERMIT REQUIREMENT	1584	3572			Report	Report			Five Per Week	COMP24
Effluent Gross		MO AVG	DAILY MX			MO AVG	DAILY MX				
Phosphorus, total (as P)	SAMPLE MEASUREMENT	6	13	lb/d	*****	0.04	0.10	mg/L	0	Weekly	COMP 24
00665 1 0 0	PERMIT REQUIREMENT	Report	Report			Report	1			Weekly	COMP24
Effluent Gross		MO AVG	DAILY MX			MO AVG	DAILY MX				
Sulfide, total (as S)	SAMPLE MEASUREMENT	1.4	1.6	lb/d	*****	0.01	0.01	mg/L	0	Weekly	COMP 24
00745 1 0 0	PERMIT REQUIREMENT	23.1	51.4			Report	Report			Weekly	COMP24
Effluent Gross		MO AVG	DAILY MX			MO AVG	DAILY MX				

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* Means "Not Quantifiable"

(Reference all attachments here)

NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

Nick Spencer
Business Unit Leader

TYPED OR PRINTED

SIGNATURE

TELEPHONE

DATE

219 473-3179

AREA CODE AND NO.

5

MO

24

DAY

11

YEAR

EPA FORM 3320-1(03-99) Revised by Indiana (June 2007) (Replaces EPA FORM T-40 WHICH MAY NOT BE USED - Mail Forms To IDEM (No Photo Co.)
On April 18, center well dropped into clarifier and was hung up on the suction rake below. Lake Major IN0000108005A4/30/2011 - Page 1 of 2
This made the clarifier inoperable. The WWTP operated with remaining clarifier until repairs were complete and clarifier returned to service on April 30.

INDUSTRIAL MAJOR LAKE COUNTY

NAME **BP PRODUCTS NORTH AMERICA INC.**
 ADDRESS **WHITING REFINERY - MAIL CODE 062**
2815 INDIANAPOLIS BLVD
WHITING IN **46394**

FACILITY **BP PRODUCTS NORTH AMERICA INC**
 LOCATION **WHITING** IN
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Revised:



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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
Chromium, total (as Cr) 01034 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	1.5	1.6	lb/d	*****	0.01	0.01	mg/L	0	Weekly	COMP 24
	PERMIT REQUIREMENT	23.9	68.53			Report	Report			Weekly	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Vanadium, total recoverable 01128 1 0 1 Effluent Gross	SAMPLE MEASUREMENT	15	25	lb/d	*****	0.10	0.19	mg/L	0	Monthly	COMP 24
	PERMIT REQUIREMENT	Report	Report			Report	Report			Monthly	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Chromium, hexavalent dissolved (as Cr) 01220 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	0.8	0.8	lb/d	*****	0.005	0.005	mg/L	0	Weekly	GRAB
	PERMIT REQUIREMENT	2.01	4.48			Report	Report			Weekly	GRAB
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Phenolics, total recoverable 32730 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	1.45	1.62	lb/d	*****	0.01	0.01	mg/L	0	Weekly	COMP 24
	PERMIT REQUIREMENT	20.33	73.01			Report	Report			Weekly	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Flow, in conduit or thru treatment plant 50050 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	17.0	20.7	Mgal/d	*****	*****	*****		0	Daily	TOTALZ
	PERMIT REQUIREMENT	Report	Report							Daily	TOTALZ
		MO AVG	DAILY MX								
Chemical Oxygen Demand (COD) 81017 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	14657	40666	lb/d	*****	95	265	mg/L	0	Weekly	COMP 24
	PERMIT REQUIREMENT	30323	58427			Report	Report			Weekly	COMP24
		MO AVG	DAILY MX			MO AVG	DAILY MX				
Flow, total 82220 1 0 0 Effluent Gross	SAMPLE MEASUREMENT	*****	509.80	Mgal/ mo	*****	*****	*****		0	Monthly	RCOTOT
	PERMIT REQUIREMENT		Report							Monthly	RCOTOT
			MO TOTAL								

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Nick Spencer
 Business Unit Leader

TYPED OR PRINTED

SIGNATURE

TELEPHONE

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5 26 11
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2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394

PERMIT NO	IN0000108	OUTFALL 002		Apr-11	APRIL COOLING WATER EFFLUENT									
PARAMETER CODE	FLOW 50050	IN-TEMP 00011	OUT-TEMP 00011	HEAT 00179	pH 00400	OUT-OIL 00552	IN-TOC 00680	OUT-TOC 00680	DELTA-TOC 00680	RESID-CL 50060	IN-TEMP 00011	OUT-TEMP 00011		
SAMPLE TYPE														
PERMIT	CONT	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	CONT	CONT		
ACTUAL	CONT	CONT	CONT	CONT	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	CONT	CONT		
FREQUENCY														
PERMIT	CONT	5/7	5/7	5/7	3/7	1/MO	1/YR	1/YR	1/YR	1/7	5/7	5/7		
ACTUAL	CONT	CONT	CONT	CONT	3/7	1/MO	1/YR	1/YR	1/YR	1/7	CONT	CONT		
LIMITS:	AVG.				1.70									
	MAX.				2.00	6.0-9.0					20			
	DATE	MG/D	DEG C	DEG C	GBTU/HR	SU	mg/l	mg/l	mg/l	5 mg/l	.06 mg/l	60 LB/D	DEG F	DEG F
	1	45.1	5	23	0.507	7.7	_____	_____	_____	_____	_____	_____	41.0	73.4
	2	49.5	5	23	0.557	_____	_____	_____	_____	_____	_____	_____	41.0	73.4
	3	51.4	7	24	0.546	_____	_____	_____	_____	_____	_____	_____	44.6	75.2
	4	52.2	7	24	0.554	7.6	_____	_____	_____	_____	_____	_____	44.6	75.2
	5	43.1	7	23	0.431	_____	_____	_____	_____	_____	_____	_____	44.6	73.4
	6	49.0	7	24	0.520	7.9	_____	_____	_____	_____	_____	_____	44.6	75.2
	7	33.8	7	25	0.380	_____	_____	_____	_____	0	0	_____	44.6	77.0
	8	47.1	7	25	0.530	7.9	_____	_____	_____	_____	_____	_____	44.6	77.0
	9	39.4	7	25	0.443	_____	_____	_____	_____	_____	_____	_____	44.6	77.0
	10	41.3	8	26	0.464	_____	_____	_____	_____	_____	_____	_____	46.4	78.8
	11	41.2	10	27	0.438	7.7	_____	_____	_____	_____	_____	_____	50.0	80.6
	12	40.3	10	28	0.453	_____	_____	_____	_____	_____	_____	_____	50.0	82.4
	13	47.8	10	28	0.538	7.7	0.9	_____	_____	0	0	_____	50.0	82.4
	14	47.8	10	28	0.538	_____	_____	_____	_____	_____	_____	_____	50.0	82.4
	15	47.8	10	27	0.508	7.6	_____	_____	_____	_____	_____	_____	50.0	80.6
	16	48.7	9	26	0.517	_____	_____	_____	_____	_____	_____	_____	48.2	78.8
	17	40.5	8	27	0.481	_____	_____	_____	_____	_____	_____	_____	46.4	80.6
	18	42.6	8	26	0.479	7.6	_____	_____	_____	_____	_____	_____	46.4	78.8
	19	42.4	10	28	0.477	_____	_____	_____	_____	_____	_____	_____	50.0	82.4
	20	38.1	8	25	0.405	7.6	_____	_____	_____	_____	_____	_____	46.4	77.0
	21	35.9	8	25	0.381	_____	_____	_____	_____	0	0	_____	46.4	77.0
	22	30.4	8	26	0.342	7.7	_____	_____	_____	_____	_____	_____	46.4	78.8
	23	24.8	8	26	0.279	_____	_____	_____	_____	_____	_____	_____	46.4	78.8
	24	19.4	8	26	0.218	_____	_____	_____	_____	_____	_____	_____	46.4	78.8
	25	20.0	10	28	0.225	7.6	_____	_____	_____	_____	_____	_____	50.0	82.4
	26	19.0	10	28	0.214	_____	_____	_____	_____	_____	_____	_____	50.0	82.4
	27	54.0	10	28	0.607	7.5	_____	_____	_____	_____	_____	_____	50.0	82.4
	28	55.3	9	27	0.622	_____	_____	_____	_____	0	0	_____	48.2	80.6
	29	56.0	9	24	0.525	7.9	_____	_____	_____	_____	_____	_____	48.2	75.2
	30	57.6	10	26	0.576	_____	_____	_____	_____	_____	_____	_____	50.0	78.8
	31	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
AVERAGE	42.1	8	26	0.458	7.7	0.9	_____	_____	_____	0	0	47.0	78.6	
HIGHEST VAL.	57.6	10	28	0.622	7.9	0.9	_____	_____	_____	0	0	50.0	82.4	
LOWEST VAL.	19.0	5	23	0.214	7.5	0.9	_____	_____	_____	0	0	41.0	73.4	
OVER LIMIT	0			0	0	0				0	0	0	0	
TOTAL	1261.5													

CERTIFIED OPERATOR: *David J. Olsen* NO. 14118
 —MEANS NOT TESTED THIS DATE Exp. 6/30/2012
 5-20-11 Tel. 219-473-5298

AUTHORIZED AGENT: *N.P. [Signature]*

**BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394**

PERMIT NO. IN0000108

Apr-11 APRIL STORM WATER RUNOFF

----OUTFALL 003----

*** NOTE: TO BE SAMPLED AFTER EACH RAIN EVENT IF DISCHARGE OCCURS - ONCE PER WEEK

PARAMETER		pH	OIL	TOC	FLOW
CODE:		00400	00552	00680	50050
LIMITS:	MAX.	6-9	15	110	

DATE	SU	mg/l	mg/l	MG/D
1	_____	_____	_____	0.186
2	_____	_____	_____	0.015
3	_____	_____	_____	0.039
4	7.4	1.0	26	0.197
5	_____	_____	_____	0.146
6	_____	_____	_____	0.023
7	_____	_____	_____	0.001
8	_____	_____	_____	0.079
9	_____	_____	_____	0.007
10	_____	_____	_____	0.045
11	7.4	2.7	27	0.235
12	_____	_____	_____	0.150
13	_____	_____	_____	0.008
14	_____	_____	_____	0.003
15	_____	_____	_____	0.170
16	_____	_____	_____	0.079
17	_____	_____	_____	0.027
18	7.5	<0.3	36	0.266
19	_____	_____	_____	0.380
20	_____	_____	_____	0.174
21	_____	_____	_____	0.001
22	_____	_____	_____	0.284
23	_____	_____	_____	0.081
24	7.7	<0.3	15	0.432
25	_____	_____	_____	0.200
26	_____	_____	_____	0.485
27	_____	_____	_____	0.609
28	_____	_____	_____	0.082
29	_____	_____	_____	0.013
30	_____	_____	_____	0.022
31	_____	_____	_____	_____

AVERAGE	7.5	<1.1	26	0.148
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HIGHEST VAL.	7.7	2.7	36	0.609
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LOWEST VAL.	7.4	<0.3	15	0.001
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OVER LIMIT	0	0	0	0
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CERTIFIED OPERATOR : *David J. Olsen*
-MEANS NOT TESTED THIS DATE

NO. 14118
Exp. 6/30/2012
Tel. 219-473-5298

DATE: 5-20-11

AUTHORIZED AGENT :

N.P.J.

**BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394**

PERMIT NO. IN0000108

Apr-11 APRIL STORM WATER RUNOFF

----OUTFALL 004----

*** NOTE: TO BE SAMPLED AFTER EACH RAIN EVENT IF DISCHARGE OCCURS - ONCE PER WEEK

PARAMETER CODE: LIMITS:		pH 00400 6-9	OIL 00552 15	TOC 00680 110	FLOW 50050
DATE		SU	mg/l	mg/l	MG/D
	1	_____	_____	_____	0.272
	2	_____	_____	_____	0.000
	3	_____	_____	_____	0.006
	4	7.7	<0.3	12	0.131
	5	_____	_____	_____	0.246
	6	_____	_____	_____	0.153
	7	_____	_____	_____	0.342
	8	_____	_____	_____	0.270
	9	_____	_____	_____	0.002
	10	_____	_____	_____	0.004
	11	8.0	3.0	18	0.187
	12	_____	_____	_____	0.285
	13	_____	_____	_____	0.253
	14	_____	_____	_____	0.108
	15	_____	_____	_____	0.011
	16	_____	_____	_____	0.026
	17	_____	_____	_____	0.006
	18	8.2	0.3*	23	0.186
	19	_____	_____	_____	0.474
	20	_____	_____	_____	0.690
	21	_____	_____	_____	0.719
	22	_____	_____	_____	0.249
	23	_____	_____	_____	0.021
	24	8.2	0.6*	14	0.370
	25	_____	_____	_____	0.528
	26	_____	_____	_____	0.921
	27	_____	_____	_____	1.245
	28	_____	_____	_____	1.888
	29	_____	_____	_____	0.464
	30	_____	_____	_____	0.000
	31	_____	_____	_____	_____
AVERAGE		8.0	<1.1*	17	0.335
HIGHEST VAL.		8.2	3.0	23	1.888
LOWEST VAL.		7.7	<0.3	12	0.000
OVER LIMIT		0	0	0	0

CERTIFIED OPERATOR: *David J. Olsen*
 --MEANS NOT TESTED THIS DATE
 * MEANS NOT QUANTIFIABLE

NO. 14118
 Exp. 6/30/2012
 Tel. 219-473-5298

DATE: 5-20-11 AUTHORIZED AGENT:

N.P. [Signature]

**BP PRODUCTS NORTH AMERICA Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394**

PERMIT NO	IN0000108	OUTFALL 005	Apr-11	APRIL PROCESS WATER EFFLUENT										
PARAMETER	FLOW	BOD	COD	pH	TSS	OIL	NH3-N	SULFIDE						
CODE	50050	00310	81017	00400	00530	00552	00610	00745						
SAMPLE TYPE														
PERMIT	CONT	24	24	GRAB	24	GRAB	24	24						
ACTUAL	CONT	24	24	GRAB	24	GRAB	24	24						
FREQUENCY														
PERMIT	CONT	1/7	1/7	3/7	2/7	1/7	5/7	1/7						
ACTUAL	CONT	1/7	1/7	3/7	As Required	1/7	5/7	1/7						
LIMITS:	AVG		4161		30323									
MAX			8164		58427	6.0-9.0								
DATE	MG/D	mg/l	LB/D	mg/l	LB/D	SU	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D
1	13.4	---	---	---	---	7.0	---	---	---	---	---	---	---	---
2	15.1	---	---	---	---	---	---	---	---	---	---	---	---	---
3	15.0	---	---	---	---	---	---	---	---	---	---	---	---	---
4	16.8	---	---	---	---	6.9	10.4	1457	---	---	0.25	31	---	---
5	19.2	---	---	42	6725	---	---	---	---	---	0.25	35	<0.01	<1.4
6	18.8	2.3	361	---	---	7.1	---	---	3.4	533	0.19	30	---	---
7	17.9	---	---	---	---	---	10.0	1493	---	---	0.13	19	---	---
8	19.3	---	---	---	---	7.3	---	---	---	---	---	---	---	---
9	19.3	---	---	---	---	---	---	---	---	---	---	---	---	---
10	19.0	4.5	713	52	8240	---	19.0	3011	---	---	<0.10	<16	<0.01	<1.6
11	18.9	---	---	---	---	7.0	10.0	1576	0.4*	63	<0.10	<16	---	---
12	19.4	4.9	793	60	9708	---	19.6	3171	---	---	<0.10	<16	<0.01	<1.6
13	18.7	---	---	---	---	7.0	---	---	2.2	343	0.11	17	---	---
14	15.9	5.6	743	78	10343	---	26.0	3448	---	---	<0.10	<13	<0.01	<1.3
15	17.5	---	---	---	---	7.1	---	---	1.8	263	---	---	---	---
16	18.6	---	---	---	---	---	---	---	---	---	---	---	---	---
17	18.5	---	---	---	---	---	---	---	---	---	0.19	29	---	---
18	17.7	---	---	---	---	6.9	25.6	3779	---	---	0.14	21	<0.01	<1.5
19	20.7	---	---	71	12257	---	---	---	---	---	<0.10	<17	---	---
20	19.4	8.0	1294	---	---	7.1	---	---	3.2	518	<0.10	<16	---	---
21	12.5	---	---	---	---	---	154.0	16055	---	---	<0.10	<10	---	---
22	16.6	---	---	---	---	7.2	73.8	10217	---	---	3.27	453	---	---
23	15.3	---	---	---	---	---	109.0	13909	---	---	---	---	---	---
24	16.1	---	---	---	---	---	62.0	8325	---	---	0.11	15	---	---
25	15.7	---	---	---	---	7.2	108.5	14207	---	---	<0.10	<13	<0.01	<1.3
26	18.4	---	---	265	40666	---	362.7	55658	---	---	<0.10	<15	---	---
27	18.2	93.0	14116	---	---	7.1	437.2	66362	21.5	3263	<0.10	<15	---	---
28	16.0	52.0	6939	---	---	---	201.6	26902	3.7	494	<0.10	<13	---	---
29	12.2	13.4	1363	---	---	7.3	61.0	6207	---	---	---	---	---	---
30	9.7	---	---	---	---	---	64.0	5177	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---
AVERAGE	17.0	23.0	3290	95	14657	7.1	103.2	14174	5.2*	782	<0.28	<40	<0.01	<1.4
HIGHEST VAL.	20.7	93.0	14116	265	40666	7.3	437.2	66362	21.5	3263	3.27	453	<0.01	<1.6
LOWEST VAL.	9.7	2.3	361	42	6725	6.9	10.0	1457	0.4*	63	<0.10	<10	<0.01	<1.3
OVER LIMIT	0	0	1	0	0	0	0	9	0	1	0	0	0	0
TOTAL	509.80													

CERTIFIED OPERATOR: *David J. Olsen*
 --MEANS --MEANS NOT TESTED THIS DATE
 * MEANS NOT QUANTIFIABLE

NO. 14118
 Exp. 6/30/2012
 Tel. 219-473-5298

DATE: 5-20-11 AUTHORIZED AGENT: *N. P. J.*

**BP PRODUCTS NORTH AMERICA, Inc., WHITING REFINERY
2815 INDIANAPOLIS BLVD., WHITING, INDIANA 46394**

PERMIT NO	IN0000108	OUTFALL 005	Apr-11	APRIL PROCESS WATER EFFLUENT								
PARAMETER		HX. CHRM	TL. CHRM	PHENOL	VANADIUM	ORTHO-P	MERCURY					
CODE		01220	01034/01118	32730	01128	00665	71901					
SAMPLE TYPE												
PERMIT		GRAB	24	24	24	24	GRAB					
ACTUAL		GRAB	24	24	24	24	GRAB					
FREQUENCY												
PERMIT		1/7	1/7	1/7	1/MO	1/7	2/YR					
ACTUAL		1/7	1/7	1/7	1/MO	1/7	2/YR					
LIMITS:	AVG.	2.01	23.90	20.33								
	MAX.	4.48	68.53	73.01								
DATE	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	mg/l	LB/D	1	LB/D	ng/L	LB/D
1	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
2	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
4	_____	_____	_____	_____	<0.01	<1.40	_____	_____	_____	_____	_____	_____
5	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
6	<0.005	<0.8	<0.01	<1.6	_____	_____	_____	_____	_____	_____	_____	_____
7	_____	_____	_____	_____	_____	_____	_____	_____	0.02	3	_____	_____
8	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
9	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
10	_____	_____	<0.01	<1.6	<0.01	<1.58	0.042	6.7	0.01	2	_____	_____
11	<0.005	<0.8	_____	_____	_____	_____	_____	_____	_____	_____	7.21	0.00114
12	_____	_____	<0.01	<1.6	<0.01	<1.62	0.078	13	0.03	5	_____	_____
13	<0.005	<0.8	_____	_____	_____	_____	_____	_____	_____	_____	40.4	0.00629
14	_____	_____	<0.01	<1.3	<0.01	<1.33	0.19	25	0.05	7	_____	_____
15	<0.005	<0.7	_____	_____	_____	_____	_____	_____	_____	_____	13.3	0.00194
16	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
17	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
18	_____	_____	_____	_____	<0.01	<1.48	_____	_____	_____	_____	_____	_____
19	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
20	<0.005	<0.8	<0.01	<1.6	_____	_____	_____	_____	_____	_____	_____	_____
21	_____	_____	_____	_____	_____	_____	_____	_____	0.05	5	_____	_____
22	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
23	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
24	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
25	_____	_____	_____	_____	<0.01	<1.31	_____	_____	_____	_____	_____	_____
26	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
27	<0.005	<0.8	<0.01	<1.5	_____	_____	_____	_____	_____	_____	_____	_____
28	_____	_____	_____	_____	_____	_____	_____	_____	0.10	13	_____	_____
29	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
30	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
31	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
AVERAGE	<0.005	<0.8	<0.01	<1.5	<0.01	<1.45	0.10	15	0.04	6	20.3	0.00312
HIGHEST VAL.	<0.005	<0.8	<0.01	<1.6	<0.01	<1.62	0.19	25	0.10	13	40.4	0.00629
LOWEST VAL.	<0.005	<0.7	<0.01	<1.3	<0.01	<1.31	0.042	6.7	0.01	2	7.20	0.00114
OVER LIMIT	0	0	0	0	0	0	0	0	0	0	0	0

CERTIFIED OPERATOR: *David J. Olsen*
-MEANS NOT TESTED THIS DATE

NO. 14118
Exp. 6/30/2012
Tel. 219-473-5298

DATE: 5-20-11

AUTHORIZED AGENT:

N.D.E.